

? County FIPS and Plant ID/NEDSID:

Reporting Year: \_\_\_\_\_

Facility Name: \_\_\_\_\_

### Default Emission Factors for Calculating Hazardous Air Pollutants from Combustion of **Wood Fuels**

The Maine Dept. of Environmental Protection has determined that facilities burning wood fuels, including wood, bark, and sawdust, release the hazardous air pollutants (HAPs) on this form. In the absence of facility- or SCC-specific emission estimates for these pollutants from your facility's stationary units burning wood fuels, the Maine DEP intends to apply the default emission factors on this form to your facility's annual wood fuel throughput to calculate HAP emissions.

If, in your professional opinion, you believe alternative HAP emission factors are more appropriate, supply them in the columns provided in the table below or add the HAP entry to the appropriate process unit(s) in Satellite i-STEPS, using Emission Estimation Method code 9 (i-STEPS calculated/Local Factor). If you have differing emission factors based on different SCCs and process units burning wood fuels, please make the appropriate Satellite i-STEPS entries or provide those factors on multiple forms. These factors will apply to all SCC units firing wood fuels, unless noted here ☐. SCC(s) to which these emission factors ONLY apply:

POLLUTANT CODE	POLLUTANT	DEFAULT FACTOR	FACTOR UNITS	ALTERNATIVE EMISSION FACTOR	REFERENCE SOURCE OF EMISSION FACTOR
88062	2,4,6-Trichlorophenol	1.98E-07	Lb per Tons of Wood Burned		
51285	2,4-Dinitrophenol	4.23E-06	Lb per Tons of Wood Burned		
51285	2,4-Dinitrophenol	1.62E-06	Lb per Tons of Wood Burned		
100027	4-Nitrophenol	9.90E-07	Lb per Tons of Wood Burned		
75070	Acetaldehyde	7.47E-03	Lb per Tons of Wood Burned		
67641	Acetone	1.71E-03	Lb per Tons of Wood Burned		
107028	Acrolein	3.60E-02	Lb per Tons of Wood Burned		
7664417	Ammonia*	3.10E-01	Lb per Tons of Wood Burned		
*For facilities with SCR emission control equipment only. Do not report ammonia for uncontrolled emissions.					
7440360	Antimony	7.11E-05	Lb per Tons of Wood Burned		
7440382	Arsenic	1.98E-04	Lb per Tons of Wood Burned		
7440393	Barium	1.53E-03	Lb per Tons of Wood Burned		
71432	Benzene	3.78E-02	Lb per Tons of Wood Burned		
191242	Benzo (g,h,i) perylene	8.37E-07	Lb per Tons of Wood Burned		
7440417	Beryllium	9.90E-06	Lb per Tons of Wood Burned		
117817	Diethyl phthalate	4.23E-07	Lb per Tons of Wood Burned		
7440439	Cadmium	3.69E-05	Lb per Tons of Wood Burned		
86748	Carbazole	1.62E-05	Lb per Tons of Wood Burned		
56235	Carbon tetrachloride	4.05E-04	Lb per Tons of Wood Burned		

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7782505	Chlorine	7.11E-03	Lb per Tons of Wood Burned		
108907	Chlorobenzene	2.97E-04	Lb per Tons of Wood Burned		
67663	Chloroform	2.52E-04	Lb per Tons of Wood Burned		
7440484	Cobalt	5.85E-05	Lb per Tons of Wood Burned		
7440508	Copper	4.41E-04	Lb per Tons of Wood Burned		
67562394	1,2,3,4,6,7,8-Heptachlorodibenzofuran	3.02E-09	Lb per Tons of Wood Burned		
35822469	1,2,3,4,6,7,8-Heptachlorodibenzo-p-dioxin	9.19E-10	Lb per Tons of Wood Burned		
60851345	2,3,4,6,7,8-Hexachlorodibenzofuran	6.13E-10	Lb per Tons of Wood Burned		
51207319	2,3,7,8-Tetrachlorodibenzofuran	8.10E-10	Lb per Tons of Wood Burned		
1746016	2,3,7,8-Tetrachlorodibenzo-p-dioxin	7.74E-11	Lb per Tons of Wood Burned		
100414	Ethylbenzene	2.79E-04	Lb per Tons of Wood Burned		
107062	Ethylene dichloride	2.61E-04	Lb per Tons of Wood Burned		
50000	Formaldehyde	3.96E-02	Lb per Tons of Wood Burned		
7440473	Chromium	1.89E-04	Lb per Tons of Wood Burned		
18540299	Chromium (VI)	3.15E-05	Lb per Tons of Wood Burned		
7647010	Hydrogen chloride	1.71E-01	Lb per Tons of Wood Burned		
7439921	Lead (Fuel is Bark)	2.90E-03	Lb per Tons of Wood Burned		
7439921	Lead (fuel other than Bark)	4.32E-04	Lb per Tons of Wood Burned		
7439965	Manganese	1.44E-02	Lb per Tons of Wood Burned		
7439976	Mercury	3.15E-05	Lb per Tons of Wood Burned		
74839	Methyl bromide	1.35E-04	Lb per Tons of Wood Burned		
74873	Methyl chloride	2.07E-04	Lb per Tons of Wood Burned		
71556	1,1,1-Trichloroethane	2.79E-04	Lb per Tons of Wood Burned		
78933	Methyl ethyl ketone	4.86E-05	Lb per Tons of Wood Burned		
75092	Dichloromethane	2.61E-03	Lb per Tons of Wood Burned		
7439987	Molybdenum	1.89E-05	Lb per Tons of Wood Burned		
91203	Naphthalene	8.73E-04	Lb per Tons of Wood Burned		
7440020	Nickel	2.97E-04	Lb per Tons of Wood Burned		
95476	o-Xylene	2.25E-04	Lb per Tons of Wood Burned		

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87865	Pentachlorophenol (PCP)	4.59E-07	Lb per Tons of Wood Burned		
108952	Phenol	4.59E-04	Lb per Tons of Wood Burned		
7723140	Phosphorus (yellow or white)	2.43E-04	Lb per Tons of Wood Burned		
7012375	2,4,4'-Trichlorobiphenyl	2.34E-08	Lb per Tons of Wood Burned		
28655712	Heptachlorobiphenyls, total	5.94E-10	Lb per Tons of Wood Burned		
26601649	Hexachlorobiphenyls, total	4.95E-09	Lb per Tons of Wood Burned		
25429292	Pentachlorobiphenyls, total	1.08E-08	Lb per Tons of Wood Burned		
26914330	Tetrachlorobiphenyls, total	2.25E-08	Lb per Tons of Wood Burned		
91576	2-Methyl Naphthalene	1.44E-06	Lb per Tons of Wood Burned		
83329	Acenaphthene	8.19E-06	Lb per Tons of Wood Burned		
208968	Acenaphthylene	4.50E-05	Lb per Tons of Wood Burned		
98862	Acetophenone	2.88E-08	Lb per Tons of Wood Burned		
120127	Anthracene	2.70E-05	Lb per Tons of Wood Burned		
100527	Benzaldehyde	7.65E-06	Lb per Tons of Wood Burned		
56553	Benzo (a) anthracene	5.85E-07	Lb per Tons of Wood Burned		
50328	Benzo (a) pyrene	2.34E-05	Lb per Tons of Wood Burned		
205992	Benzo (b) fluoranthene	9.00E-07	Lb per Tons of Wood Burned		
192972	Benzo (e) pyrene	2.34E-08	Lb per Tons of Wood Burned		
207089	Benzo (k) fluoranthene	3.24E-07	Lb per Tons of Wood Burned		
56832736	Benzo(b+k)fluoranthene	2.90E-05	Lb per Tons of Wood Burned		
56832736	Benzofluoranthenes	1.08E-06	Lb per Tons of Wood Burned		
218019	Chrysene	3.42E-07	Lb per Tons of Wood Burned		
53703	Dibenzo(a,h) anthracene	8.19E-08	Lb per Tons of Wood Burned		
206440	Fluoranthene	1.44E-06	Lb per Tons of Wood Burned		
86737	Fluorene	3.06E-05	Lb per Tons of Wood Burned		
193395	Indeno(1,2,3-cd)pyrene	7.83E-07	Lb per Tons of Wood Burned		
26914181	Methylantracene, mixed isomers	1.40E-04	Lb per Tons of Wood Burned		
26914181	Methylantracene, mixed isomers	1.40E-04	Lb per Tons of Wood Burned		
198550	Perylene	4.68E-09	Lb per Tons of Wood Burned		
85018	Phenanthrene	6.30E-05	Lb per Tons of Wood Burned		
129000	Pyrene	3.33E-05	Lb per Tons of Wood Burned		
123386	Propionaldehyde	5.49E-04	Lb per Tons of Wood Burned		

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78875	Propylene dichloride	2.97E-04	Lb per Tons of Wood Burned		
7782492	Selenium	2.52E-05	Lb per Tons of Wood Burned		
100425	Styrene	1.71E-02	Lb per Tons of Wood Burned		
127184	Perchloroethylene	3.42E-04	Lb per Tons of Wood Burned		
108883	Toluene	8.28E-03	Lb per Tons of Wood Burned		
79016	Trichloroethylene	2.70E-04	Lb per Tons of Wood Burned		
7440622	Vanadium	8.82E-06	Lb per Tons of Wood Burned		
75014	Vinyl chloride	1.62E-04	Lb per Tons of Wood Burned		
7440666	Zinc	3.78E-03	Lb per Tons of Wood Burned		

I acknowledge that the above emission factors will be used to calculate emissions of hazardous air pollutants at my facility and that the emission totals will be returned to me for my inspection prior to my signing a statement which certifies emissions for the 2005 Annual Air Emissions Inventory.

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Telephone: \_\_\_\_\_